

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

SQL> SELECT Deptno, Job
2 FROM Emp
3 GROUP BY Deptno, Job;

DEPTNO JOB

10 CLERK
10 MANAGER
10 PRESIDENT
20 CLERK
20 ANALYST
20 MANAGER
30 CLERK
30 MANAGER
30 SALESMAN

9 rows selected.

SQL> ED
Wrote file afiedt.buf

1 SELECT DISTINCT Deptno, Job
2* FROM Emp
SQL> /

DEPTNO JOB

10 CLERK
10 MANAGER
10 PRESIDENT
20 ANALYST
20 CLERK
20 MANAGER
30 CLERK
30 MANAGER
30 SALESMAN

9 rows selected.

SQL> cl scr

SQL> SELECT Empno
2 FROM Emp
3 GROUP BY Empno;

EMPNO

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Contact For Courses And Training in

Oracle Developer Suite 10g(D2K), Oracle Apps R12, Live Projects in SQL and PL/SQL, Data Modeling, Linux/Unix

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

7369
7499
7521
7566
7654
7698
7782
7788
7839
7844
7876

EMPNO

7900
7902
7934

14 rows selected.

SQL> cl scr

SQL> SELECT HireDate FROM Emp;

HIREDATE

17-NOV-81
01-MAY-81
09-JUN-81
02-APR-81
28-SEP-81
20-FEB-81
08-SEP-81
03-DEC-81
22-FEB-81
03-DEC-81
17-DEC-80

HIREDATE

09-DEC-82
12-JAN-83
23-JAN-82

14 rows selected.

SQL> SELECT
2 TO_CHAR(HireDate, 'YYYY') Year
3 FROM Emp;

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YEAR

1981
1981
1981
1981
1981
1981
1981
1981
1981
1981
1981
1980

YEAR

1982
1983
1982

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  TO_CHAR(HireDate, 'YYYY') Year
3  FROM Emp
4* GROUP BY TO_CHAR(HireDate, 'YYYY')
SQL> /
```

YEAR

1980
1981
1982
1983

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  TO_CHAR(HireDate, 'Month') Month
3  FROM Emp
4* GROUP BY TO_CHAR(HireDate, 'Month')
SQL> /
```

MONTH

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```
-----  
April  
December  
February  
January  
June  
May  
November  
September
```

8 rows selected.

```
SQL> ED  
Wrote file afiedt.buf
```

```
1  SELECT  
2  TO_CHAR(HireDate, 'Month') Month  
3  FROM Emp  
4  GROUP BY TO_CHAR(HireDate, 'Month')  
5* ORDER BY TO_CHAR(HireDate, 'Month')  
SQL> /
```

MONTH

```
-----  
April  
December  
February  
January  
June  
May  
November  
September
```

8 rows selected.

```
SQL> ED  
Wrote file afiedt.buf
```

```
1  SELECT  
2  TO_CHAR(HireDate, 'Month') Month  
3  FROM Emp  
4  GROUP BY TO_CHAR(HireDate, 'Month')  
5* ORDER BY TO_CHAR(HireDate, 'MM')  
SQL> /
```

```
ORDER BY TO_CHAR(HireDate, 'MM')  
*  
ERROR at line 5:  
ORA-00979: not a GROUP BY expression
```

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```
SQL> SELECT Empno, Ename, Deptno, Sal
2 FROM Emp
3 ORDER BY Sal;
```

EMPNO	ENAME	DEPTNO	SAL
7369	SMITH	20	800
7900	JAMES	30	950
7876	ADAMS	20	1100
7654	MARTIN	30	1250
7521	WARD	30	1250
7934	MILLER	10	1300
7844	TURNER	30	1500
7499	ALLEN	30	1600
7782	CLARK	10	2450
7698	BLAKE	30	2850
7566	JONES	20	2975

EMPNO	ENAME	DEPTNO	SAL
7902	FORD	20	3000
7788	SCOTT	20	3000
7839	KING	10	5000

14 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Empno, Ename, Deptno, Sal
2 FROM Emp
3* ORDER BY Hiredate
SQL> /
```

EMPNO	ENAME	DEPTNO	SAL
7369	SMITH	20	800
7499	ALLEN	30	1600
7521	WARD	30	1250
7566	JONES	20	2975
7698	BLAKE	30	2850
7782	CLARK	10	2450
7844	TURNER	30	1500
7654	MARTIN	30	1250
7839	KING	10	5000
7900	JAMES	30	950
7902	FORD	20	3000

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```
-----
EMPNO ENAME          DEPTNO          SAL
-----
7934 MILLER          10             1300
7788 SCOTT           20             3000
7876 ADAMS           20             1100
-----
```

14 rows selected.

SQL> cl scr

```
SQL> SELECT Deptno
2  FROM Emp
3  GROUP BY Deptno;
```

```
DEPTNO
-----
10
20
30
```

SQL> ED
Wrote file afiedt.buf

```
1  SELECT Deptno
2  FROM Emp
3  GROUP BY Deptno
4* ORDER BY Deptno DESC
SQL> /
```

```
DEPTNO
-----
30
20
10
```

SQL> ED
Wrote file afiedt.buf

```
1  SELECT Deptno
2  FROM Emp
3  GROUP BY Deptno
4* ORDER BY Job
```

```
SQL> /
ORDER BY Job
      *
```

ERROR at line 4:
ORA-00979: not a GROUP BY expression

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```
SQL> ED
Wrote file afiedt.buf

  1  SELECT Deptno, Job
  2  FROM Emp
  3* GROUP BY Deptno
SQL> /
SELECT Deptno, Job
          *
ERROR at line 1:
ORA-00979: not a GROUP BY expression
```

```
SQL> ED
Wrote file afiedt.buf

  1  SELECT Deptno, Job
  2  FROM Emp
  3  GROUP BY Deptno, Job
  4* ORDER BY Deptno DESC
SQL> /
```

DEPTNO	JOB
30	CLERK
30	MANAGER
30	SALESMAN
20	ANALYST
20	CLERK
20	MANAGER
10	CLERK
10	MANAGER
10	PRESIDENT

9 rows selected.

```
SQL> ED
Wrote file afiedt.buf

  1  SELECT Deptno, Job
  2  FROM Emp
  3  GROUP BY Deptno, Job
  4* ORDER BY Job
SQL> /
```

DEPTNO	JOB
20	ANALYST
10	CLERK

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```
20 CLERK
30 CLERK
10 MANAGER
20 MANAGER
30 MANAGER
10 PRESIDENT
30 SALESMAN
```

9 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Deptno, Job
2  FROM Emp
3* GROUP BY Deptno, Job
SQL> /
```

DEPTNO	JOB
10	CLERK
10	MANAGER
10	PRESIDENT
20	CLERK
20	ANALYST
20	MANAGER
30	CLERK
30	MANAGER
30	SALESMAN

9 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT
2  TO_CHAR(HireDate, 'Month') Month
3  FROM Emp;
```

```
MONTH
-----
November
May
June
April
September
February
September
December
February
```

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December
December

MONTH

December
January
January

14 rows selected.

SQL> ED
Wrote file afiedt.buf

```
1  SELECT
2  TO_CHAR(HireDate, 'Month') Month
3  FROM Emp
4* GROUP BY TO_CHAR(HireDate, 'Month')
SQL> /
```

MONTH

April
December
February
January
June
May
November
September

8 rows selected.

SQL> ED
Wrote file afiedt.buf

```
1  SELECT
2  TO_CHAR(HireDate, 'MM') Seqno,
3  TO_CHAR(HireDate, 'Month') Month
4  FROM Emp
5  GROUP BY
6  TO_CHAR(HireDate, 'MM'),
7* TO_CHAR(HireDate, 'Month')
SQL> /
```

SE MONTH

01 January
02 February

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```
04 April
05 May
06 June
09 September
11 November
12 December
```

8 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT SUM(Sal) SalSum
2 FROM Emp;
```

```
SALSUM
-----
29025
```

```
SQL> SELECT SUM(Sal) SalSum
2 FROM Emp
3 GROUP BY Deptno;
```

```
SALSUM
-----
8750
10875
9400
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Deptno, SUM(Sal) SalSum
2 FROM Emp
3* GROUP BY Deptno
SQL> /
```

```
DEPTNO SALSUM
-----
10      8750
20     10875
30      9400
```

```
SQL> SELECT SUM(Sal) SalSum
2 FROM Emp;
```

```
SALSUM
-----
29025
```

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```
SQL> SELECT Job FROM Emp
      2  GROUP BY Job;
```

JOB

ANALYST
CLERK
MANAGER
PRESIDENT
SALESMAN

```
SQL> ED
Wrote file afiedt.buf
```

```
      1  SELECT Job, SUM(Sal) SalSum
      2  FROM Emp
      3* GROUP BY Job
SQL> /
```

JOB	SALSUM
-----	-----
ANALYST	6000
CLERK	4150
MANAGER	8275
PRESIDENT	5000
SALESMAN	5600

```
SQL> cl scr
```

```
SQL> SELECT
      2  SUM(Sal) SalSum
      3  FROM Emp
      4  GROUP BY TO_CHAR(HireDate, 'YYYY');
```

SALSUM

800
22825
4300
1100

```
SQL>
SQL> ED
Wrote file afiedt.buf
```

```
      1  SELECT
      2  TO_CHAR(HireDate, 'YYYY') Year,
      3  SUM(Sal) SalSum
      4  FROM Emp
```

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```
5* GROUP BY TO_CHAR(HireDate, 'YYYY')
SQL> /
```

YEAR	SALSUM
1980	800
1981	22825
1982	4300
1983	1100

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT
2 TO_CHAR(HireDate, 'YYYY') Year,
3 SUM(Sal) SalSum,
4 COUNT(*) Staff,
5 AVG(Sal) SalAvg
6 FROM Emp
7* GROUP BY TO_CHAR(HireDate, 'YYYY')
SQL> /
```

YEAR	SALSUM	STAFF	SALAVG
1980	800	1	800
1981	22825	10	2282.5
1982	4300	2	2150
1983	1100	1	1100

```
SQL> cl scr
```

```
SQL> SELECT Deptno, SUM(Sal) SalSum
2 FROM Emp
3 GROUP BY Deptno;
```

DEPTNO	SALSUM
10	8750
20	10875
30	9400

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT
2 Deptno,
3 Job,
4 SUM(Sal) SalSum
5 FROM Emp
```

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```
6  GROUP BY
7  Deptno,
8*  Job
SQL> /
```

DEPTNO	JOB	SALSUM
10	CLERK	1300
10	MANAGER	2450
10	PRESIDENT	5000
20	CLERK	1900
20	ANALYST	6000
20	MANAGER	2975
30	CLERK	950
30	MANAGER	2850
30	SALESMAN	5600

9 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Deptno,
3  Job,
4  TO_CHAR(HireDate, 'YYYY') Year,
5  SUM(Sal) SalSum
6  FROM Emp
7  GROUP BY
8  Deptno,
9  Job,
10* TO_CHAR(HireDate, 'YYYY')
SQL> /
```

DEPTNO	JOB	YEAR	SALSUM
10	CLERK	1982	1300
10	MANAGER	1981	2450
10	PRESIDENT	1981	5000
20	CLERK	1980	800
20	CLERK	1983	1100
20	ANALYST	1981	3000
20	ANALYST	1982	3000
20	MANAGER	1981	2975
30	CLERK	1981	950
30	MANAGER	1981	2850
30	SALESMAN	1981	5600

11 rows selected.

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```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Deptno,
3  Job,
4  TO_CHAR(HireDate, 'YYYY') Year,
5  TO_CHAR(HireDate, 'Q') Quarter,
6  SUM(Sal) SalSum
7  FROM Emp
8  GROUP BY
9  Deptno,
10 Job,
11 TO_CHAR(HireDate, 'YYYY'),
12* TO_CHAR(HireDate, 'Q')
SQL> /
```

DEPTNO	JOB	YEAR	Q	SALSUM
10	CLERK	1982	1	1300
10	MANAGER	1981	2	2450
10	PRESIDENT	1981	4	5000
20	CLERK	1980	4	800
20	CLERK	1983	1	1100
20	ANALYST	1981	4	3000
20	ANALYST	1982	4	3000
20	MANAGER	1981	2	2975
30	CLERK	1981	4	950
30	MANAGER	1981	2	2850
30	SALESMAN	1981	1	2850

DEPTNO	JOB	YEAR	Q	SALSUM
30	SALESMAN	1981	3	2750

12 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Deptno,
3  Job,
4  TO_CHAR(HireDate, 'YYYY') Year,
5  TO_CHAR(HireDate, 'Q') Quarter,
6  TO_CHAR(HireDate, 'Month') Month,
7  SUM(Sal) SalSum
8  FROM Emp
```

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```
9  GROUP BY
10 Deptno,
11 Job,
12 TO_CHAR(HireDate, 'YYYY'),
13 TO_CHAR(HireDate, 'Q'),
14* TO_CHAR(HireDate, 'Month')
SQL> /
```

DEPTNO	JOB	YEAR	Q	MONTH	SALSUM
10	CLERK	1982	1	January	1300
10	MANAGER	1981	2	June	2450
10	PRESIDENT	1981	4	November	5000
20	CLERK	1980	4	December	800
20	CLERK	1983	1	January	1100
20	ANALYST	1981	4	December	3000
20	ANALYST	1982	4	December	3000
20	MANAGER	1981	2	April	2975
30	CLERK	1981	4	December	950
30	MANAGER	1981	2	May	2850
30	SALESMAN	1981	1	February	2850

DEPTNO	JOB	YEAR	Q	MONTH	SALSUM
30	SALESMAN	1981	3	September	2750

12 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT
2  Deptno,
3  Job,
4  TO_CHAR(HireDate, 'YYYY') Year,
5  TO_CHAR(HireDate, 'Q') Quarter,
6  TO_CHAR(HireDate, 'Month') Month,
7  TO_CHAR(HireDate, 'W') MonthWeek,
8  SUM(Sal) SalSum
9  FROM Emp
10 GROUP BY
11 Deptno,
12 Job,
13 TO_CHAR(HireDate, 'YYYY'),
14 TO_CHAR(HireDate, 'Q'),
15 TO_CHAR(HireDate, 'Month'),
16* TO_CHAR(HireDate, 'W')
SQL> /
```

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DEPTNO	JOB	YEAR	Q	MONTH	M	SALSUM
10	CLERK	1982	1	January	4	1300
10	MANAGER	1981	2	June	2	2450
10	PRESIDENT	1981	4	November	3	5000
20	CLERK	1980	4	December	3	800
20	CLERK	1983	1	January	2	1100
20	ANALYST	1981	4	December	1	3000
20	ANALYST	1982	4	December	2	3000
20	MANAGER	1981	2	April	1	2975
30	CLERK	1981	4	December	1	950
30	MANAGER	1981	2	May	1	2850
30	SALESMAN	1981	1	February	3	1600

DEPTNO	JOB	YEAR	Q	MONTH	M	SALSUM
30	SALESMAN	1981	1	February	4	1250
30	SALESMAN	1981	3	September	2	1500
30	SALESMAN	1981	3	September	4	1250

14 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Deptno,
3  Job,
4  TO_CHAR(HireDate, 'YYYY') Year,
5  TO_CHAR(HireDate, 'Q') Quarter,
6  TO_CHAR(HireDate, 'Month') Month,
7  TO_CHAR(HireDate, 'W') MonthWeek,
8  TO_CHAR(HireDate, 'Day') WeekDay,
9  SUM(Sal) SalSum
10 FROM Emp
11 GROUP BY
12 Deptno,
13 Job,
14 TO_CHAR(HireDate, 'YYYY'),
15 TO_CHAR(HireDate, 'Q'),
16 TO_CHAR(HireDate, 'Month'),
17 TO_CHAR(HireDate, 'W'),
18 TO_CHAR(HireDate, 'Day')
SQL> /
```

DEPTNO	JOB	YEAR	Q	MONTH	M	WEEKDAY	SALSUM
10	CLERK	1982	1	January	4	Saturday	1300
10	MANAGER	1981	2	June	2	Tuesday	2450

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```

10 PRESIDENT 1981 4 November 3 Tuesday      5000
20 CLERK      1980 4 December 3 Wednesday    800
20 CLERK      1983 1 January  2 Wednesday    1100
20 ANALYST    1981 4 December 1 Thursday     3000
20 ANALYST    1982 4 December 2 Thursday     3000
20 MANAGER    1981 2 April    1 Thursday     2975
30 CLERK      1981 4 December 1 Thursday      950
30 MANAGER    1981 2 May      1 Friday       2850
30 SALESMAN   1981 1 February 3 Friday       1600
    
```

DEPTNO	JOB	YEAR	Q	MONTH	M	WEEKDAY	SALSUM
30	SALESMAN	1981	1	February	4	Sunday	1250
30	SALESMAN	1981	3	September	2	Tuesday	1500
30	SALESMAN	1981	3	September	4	Monday	1250

14 rows selected.

SQL> cl scr

```

SQL> SELECT
  2 Deptno,
  3 AVG(Sal)
  4 FROM Emp
  5 GROUP BY Deptno
  6 HAVING MAX(Sal) > 2900;
    
```

DEPTNO	AVG (SAL)
10	2916.66667
20	2175

```

SQL> SELECT
  2 Deptno
  3 FROM Emp
  4 /
    
```

DEPTNO
10
30
10
20
30
30
30
30
30
20

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```
20
DEPTNO
-----
20
20
10
```

14 rows selected.

```
SQL> SELECT
2  Deptno
3  FROM Emp
4  GROUP BY Deptno
5  /
```

```
DEPTNO
-----
10
20
30
```

```
SQL> SELECT
2  Deptno,
3  AVG(Sal)
4  FROM Emp
5  GROUP BY Deptno
6  /
```

```
DEPTNO    AVG(SAL)
-----
10  2916.66667
20    2175
30  1566.66667
```

```
SQL> SELECT Deptno, MAX(Sal)
2  FROM Emp
3  GROUP BY Deptno;
```

```
DEPTNO    MAX(SAL)
-----
10          5000
20          3000
30          2850
```

```
SQL> l scr
SP2-0224: invalid starting line number
SQL> cl scr
```

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```
SQL> SELECT
  2  Job,
  3  SUM(Sal) Payroll
  4  FROM Emp
  5  WHERE Job NOT LIKE 'SALES%'
  6  GROUP BY Job
  7  HAVING SUM(Sal) > 5000
  8  ORDER BY SUM(Sal);
```

JOB	PAYROLL
ANALYST	6000
MANAGER	8275

```
SQL> SELECT
  2  Job
  3  FROM Emp
  4  /
```

```
JOB
-----
PRESIDENT
MANAGER
MANAGER
MANAGER
SALESMAN
SALESMAN
SALESMAN
CLERK
SALESMAN
ANALYST
CLERK
```

```
JOB
-----
ANALYST
CLERK
CLERK
```

14 rows selected.

```
SQL> SELECT
  2  Job
  3  FROM Emp
  4  WHERE Job NOT LIKE 'SALES%'
  5  /
```

```
JOB
-----
```

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```
PRESIDENT
MANAGER
MANAGER
MANAGER
CLERK
ANALYST
CLERK
ANALYST
CLERK
CLERK
```

10 rows selected.

```
SQL> SELECT
  2  Job
  3  FROM Emp
  4  WHERE Job NOT LIKE 'SALES%'
  5  GROUP BY Job
  6  /
```

```
JOB
-----
ANALYST
CLERK
MANAGER
PRESIDENT
```

```
SQL> SELECT
  2  Job,
  3  SUM(Sal) Payroll
  4  FROM Emp
  5  WHERE Job NOT LIKE 'SALES%'
  6  GROUP BY Job
  7  /
```

```
JOB          PAYROLL
-----
ANALYST          6000
CLERK            4150
MANAGER          8275
PRESIDENT        5000
```

```
SQL> cl scr
```

```
SQL> SELECT
  2  Deptno,
  3  MIN(Sal),
  4  MAX(Sal)
  5  FROM Emp
```

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```
6 WHERE Job = 'CLERK'
7 GROUP BY Deptno
8 HAVING MIN(Sal) < 1000;
```

DEPTNO	MIN(SAL)	MAX(SAL)
20	800	1100
30	950	950

```
SQL> cl scr
```

```
SQL> SELECT
2 Deptno,
3 SUM(Sal)
4 FROM Emp
5 GROUP BY Deptno
6 HAVING COUNT(Deptno) > 3;
```

DEPTNO	SUM(SAL)
20	10875
30	9400

```
SQL> SELECT
2 Deptno,
3 AVG(Sal),
4 SUM(Sal)
5 FROM Emp
6 GROUP BY Deptno
7 HAVING AVG(Sal) > 2500;
```

DEPTNO	AVG(SAL)	SUM(SAL)
10	2916.66667	8750

```
SQL> SELECT
2 Deptno,
3 Job,
4 SUM(Sal),
5 AVG(Sal)
6 FROM Emp
7 GROUP BY Deptno, Job
8 HAVING AVG(Sal) > 2500;
```

DEPTNO	JOB	SUM(SAL)	AVG(SAL)
10	PRESIDENT	5000	5000
20	ANALYST	6000	3000
20	MANAGER	2975	2975

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30 MANAGER 2850 2850

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Deptno,
3  Job,
4  SUM(Sal),
5  AVG(Sal)
6  FROM Emp
7  GROUP BY Deptno, Job
8* HAVING AVG(Sal) > 2500 AND SUM(Sal) > 2975
SQL> /
```

DEPTNO	JOB	SUM(SAL)	AVG(SAL)
10	PRESIDENT	5000	5000
20	ANALYST	6000	3000

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  Deptno,
3  Job,
4  SUM(Sal),
5  AVG(Sal)
6  FROM Emp
7  GROUP BY Deptno, Job
8* HAVING AVG(Sal) > 2500 AND SUM(Sal) > 2975 AND COUNT(*) > 1
SQL> /
```

DEPTNO	JOB	SUM(SAL)	AVG(SAL)
20	ANALYST	6000	3000

SQL> cl scr

```
SQL> SELECT Deptno, SUM(Sal)
2  FROM Emp
3  GROUP BY Deptno;
```

DEPTNO	SUM(SAL)
10	8750
20	10875
30	9400

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```
SQL> ED
Wrote file afiedt.buf

  1  SELECT Deptno, MAX(SUM(Sal))
  2  FROM Emp
  3* GROUP BY Deptno
SQL> /
SELECT Deptno, MAX(SUM(Sal))
      *
ERROR at line 1:
ORA-00937: not a single-group group function
```

```
SQL> ED
Wrote file afiedt.buf

  1  SELECT MAX(SUM(Sal))
  2  FROM Emp
  3* GROUP BY Deptno
SQL> /
```

```
MAX(SUM(SAL))
-----
          10875
```

```
SQL> cl scr
```

```
SQL> SELECT Job, SUM(Sal)
  2  FROM Emp
  3  GROUP BY Job;
```

JOB	SUM(SAL)
ANALYST	6000
CLERK	4150
MANAGER	8275
PRESIDENT	5000
SALESMAN	5600

```
SQL> ED
Wrote file afiedt.buf

  1  SELECT Job, MAX(SUM(Sal)), MIN(SUM(Sal))
  2  FROM Emp
  3* GROUP BY Job
SQL> /
```

```
SELECT Job, MAX(SUM(Sal)), MIN(SUM(Sal))
      *
ERROR at line 1:
```

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ORA-00937: not a single-group group function

SQL> ED

Wrote file afiedt.buf

```
1  SELECT MAX(SUM(Sal)), MIN(SUM(Sal))
2  FROM Emp
3* GROUP BY Job
SQL> /
```

```
MAX(SUM(SAL)) MIN(SUM(SAL))
-----
          8275          4150
```

SQL> cl scr

SQL> cl scr

```
SQL> SELECT
2  GREATEST(1000, 500, 2500) Great
3  FROM DUAL;
```

```
      GREAT
-----
      2500
```

SQL> ED

Wrote file afiedt.buf

```
1  SELECT
2  LEAST(1000, 500, 2500) Least
3* FROM DUAL
SQL> /
```

```
      LEAST
-----
        500
```

SQL> cl scr

SQL> SHOW USER

USER is "SCOTT"

SQL> SELECT USER FROM DUAL;

USER

SCOTT

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```
SQL> SELECT UID, USER
      2 FROM DUAL;
```

```
      UID USER
-----
```

```
      103 SCOTT
```

```
SQL> SELECT USERENV('ISDBA') UserEnv FROM DUAL;
```

```
USERENV
```

```
-----
FALSE
```

```
SQL> SELECT USERENV('LANGUAGE') UserEnv FROM DUAL;
```

```
USERENV
```

```
-----
AMERICAN_AMERICA.WE8MSWIN1252
```

```
SQL> SELECT USERENV('TERMINAL') UserEnv FROM DUAL;
```

```
USERENV
```

```
-----
NIT
```

```
SQL> SELECT USERENV('SESSIONID') UserEnv FROM DUAL;
```

```
USERENV
```

```
-----
12387
```

```
SQL> cl scr
```

```
SQL> SELECT
```

```
      2 'The Memory Size of '||&Giveval1||' is '||VSIZE(&GiveVal2)||' Bytes'
```

```
"Memory Size"
```

```
      3 FROM DUAL;
```

```
Enter value for giveval1: 'APPLE'
```

```
Enter value for giveval2: 'APPLE'
```

```
Memory Size
```

```
-----
The Memory Size of APPLE is 5 Bytes
```

```
SQL> /
```

```
Enter value for giveval1: 1
```

```
Enter value for giveval2: 1
```

```
Memory Size
```

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The Memory Size of 1 is 2 Bytes

SQL> /
Enter value for giveval1: 123
Enter value for giveval2: 123

Memory Size

The Memory Size of 123 is 3 Bytes

SQL> /
Enter value for giveval1: 23434
Enter value for giveval2: 23434

Memory Size

The Memory Size of 23434 is 4 Bytes

SQL> /
Enter value for giveval1: SYSDATE
Enter value for giveval2: SYSDATE

Memory Size

The Memory Size of 30-JAN-14 is 7 Bytes

SQL> SELECT
2 Ename||' You Are Occupying '||TO_CHAR(TO_DATE(VSIZE(Ename), 'J'),
'JSP')||' Bytes of Memory Space.' Ename
3 FROM Emp;

ENAME

KING You Are Occupying FOUR Bytes of Memory Space.
BLAKE You Are Occupying FIVE Bytes of Memory Space.
CLARK You Are Occupying FIVE Bytes of Memory Space.
JONES You Are Occupying FIVE Bytes of Memory Space.
MARTIN You Are Occupying SIX Bytes of Memory Space.
ALLEN You Are Occupying FIVE Bytes of Memory Space.
TURNER You Are Occupying SIX Bytes of Memory Space.
JAMES You Are Occupying FIVE Bytes of Memory Space.
WARD You Are Occupying FOUR Bytes of Memory Space.
FORD You Are Occupying FOUR Bytes of Memory Space.
SMITH You Are Occupying FIVE Bytes of Memory Space.

ENAME

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SCOTT You Are Occupying FIVE Bytes of Memory Space.
ADAMS You Are Occupying FIVE Bytes of Memory Space.
MILLER You Are Occupying SIX Bytes of Memory Space.

14 rows selected.

SQL> cl scr

SQL> COLUMN Empno FORMAT 99
SQL> COLUMN Ename FORMAT 99
SQL> COLUMN Deptno FORMAT 99
SQL> COLUMN Job FORMAT 99
SQL> COLUMN MGR FORMAT 99
SQL> COLUMN Sal FORMAT 99
SQL> COLUMN Comm FORMAT 99
SQL> COLUMN HireDate FORMAT 99
SQL> COLUMN Total FORMAT 999
SQL> SELECT
2 SUM(VSIZE(Empno)) Empno,
3 SUM(VSIZE(Ename)) Ename,
4 SUM(VSIZE(Deptno)) Deptno,
5 SUM(VSIZE(Job)) Job,
6 SUM(VSIZE(MGR)) MGR,
7 SUM(VSIZE(Sal)) Sal,
8 SUM(VSIZE(Comm)) Comm,
9 SUM(VSIZE(HireDate)) HireDate,
10 SUM(VSIZE(Empno)) +
11 SUM(VSIZE(Ename)) +
12 SUM(VSIZE(Deptno)) +
13 SUM(VSIZE(Job)) +
14 SUM(VSIZE(MGR)) +
15 SUM(VSIZE(Sal)) +
16 SUM(VSIZE(Comm)) +
17 SUM(VSIZE(HireDate)) Total
18 FROM Emp;

EMPNO	ENAME	DEPTNO	JOB	MGR	SAL	COMM	HIREDATE	TOTAL
41	70	28	96	39	34	7	98	413

SQL> cl scr

SQL> SELECT Ename, Job
2 FROM Emp
3 WHERE Job = 'manager';

no rows selected

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```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT Ename, Job
  2  FROM Emp
  3* WHERE LOWER(Job) = 'manager'
SQL> /
```

ENAME	JOB
BLAKE	MANAGER
CLARK	MANAGER
JONES	MANAGER

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT Ename, Job
  2  FROM Emp
  3* WHERE Job = UPPER('manager')
SQL> /
```

ENAME	JOB
BLAKE	MANAGER
CLARK	MANAGER
JONES	MANAGER

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT Ename, Job
  2  FROM Emp
  3* WHERE Job = 'MANAGER'
SQL> /
```

ENAME	JOB
BLAKE	MANAGER
CLARK	MANAGER
JONES	MANAGER

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT Ename, Job
  2  FROM Emp
  3* WHERE Job = 'manger'
```

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```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT Ename, Job
  2  FROM Emp
  3* WHERE SOUNDEX(Job) = SOUNDEX('manger')
SQL> /
```

ENAME	JOB
BLAKE	MANAGER
CLARK	MANAGER
JONES	MANAGER

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT Ename, Job
  2  FROM Emp
  3* WHERE SOUNDEX(Job) = SOUNDEX('clrk')
SQL> /
```

ENAME	JOB
JAMES	CLERK
SMITH	CLERK
ADAMS	CLERK
MILLER	CLERK

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT Ename, Job
  2  FROM Emp
  3* WHERE SOUNDEX(Job) = SOUNDEX('slsmn')
SQL> /
```

ENAME	JOB
MARTIN	SALESMAN
ALLEN	SALESMAN
TURNER	SALESMAN
WARD	SALESMAN

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT Ename, Job
  2  FROM Emp
```

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```
3* WHERE SOUNDEX(Job) = SOUNDEX('prsdnt')
SQL> /
```

ENAME	JOB
KING	PRESIDENT

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Ename, Job
2 FROM Emp
3* WHERE SOUNDEX(Ename) = SOUNDEX('kng')
SQL> /
```

ENAME	JOB
KING	PRESIDENT

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Ename, Job
2 FROM Emp
3* WHERE SOUNDEX(Ename) = SOUNDEX('clrk')
SQL> /
```

ENAME	JOB
CLARK	MANAGER

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Ename, Job
2 FROM Emp
3* WHERE SOUNDEX(Ename) = SOUNDEX('smythe')
SQL> /
```

ENAME	JOB
SMITH	CLERK

```
SQL> SPOOL OFF
```

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